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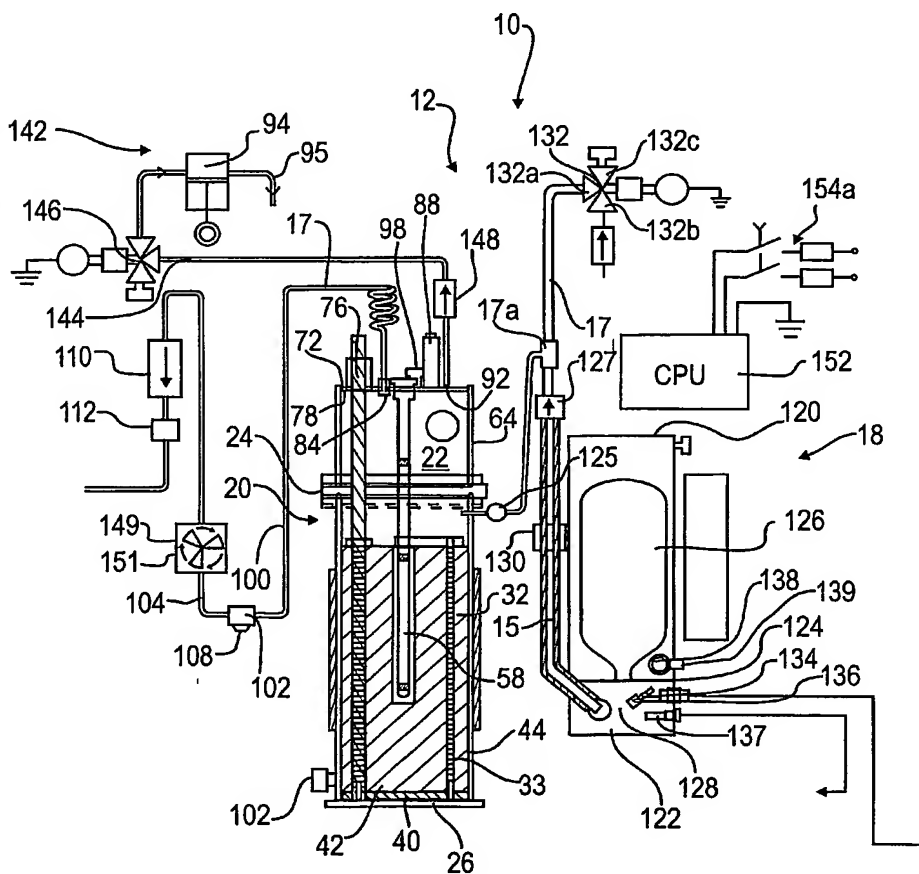
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2,449,538 14 November 2003 (14.11.2003) CA</p> <p>(71) Applicant (for all designated States except US): DYNAMIC FUEL SYSTEMS INC. [CA/CA]; 890 Brock Road South, Pickering, Ontario L1W 1Z9 (CA).</p> | <p>(72) Inventors; and</p> <p>(75) Inventors/Applicants (for US only): FAIRFULL, Thomas, A. [CA/CA]; 6 Flazington Court, Ajax, Ontario L1S 6N5 (CA). SOLIMAN, Mohamed, Ali, Mohamed, Ahmed [EG/CA]; 357 Rosedale Drive, Whitby, Ontario L1N 1Z2 (CA).</p> <p>(74) Agent: RIDOUT & MAYBEE LLP; 19th Floor, 150 Metcalfe Street, Ottawa, Ontario K4A 3A4 (CA).</p> <p>(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.</p> |
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- (54) Title: OXYGEN/HYDROGEN GENERATOR FOR INTERNAL COMBUSTION ENGINES



(57) Abstract: A hydrolytic cell consists of upper and lower chambers sealed from each other by a divider, with one or more openings in the divider for the passage of gas into the upper chamber. Liquid is prevented from entering the upper chamber by gas-permeable filters such as Hastelloy™ metal filters. Also disclosed is an electrode consisting either of a generally vertical stack of spaced apart perforated disks or porous metal filters such as Hastelloy filters, mounted to a conductive rod. A level sensing system is disclosed, consisting of a light source and detector which directs light into the lower chamber which is reflected off of a reflector within the chamber, such that the liquid level is detected at the level of the detector by a reduced light intensity.



(84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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